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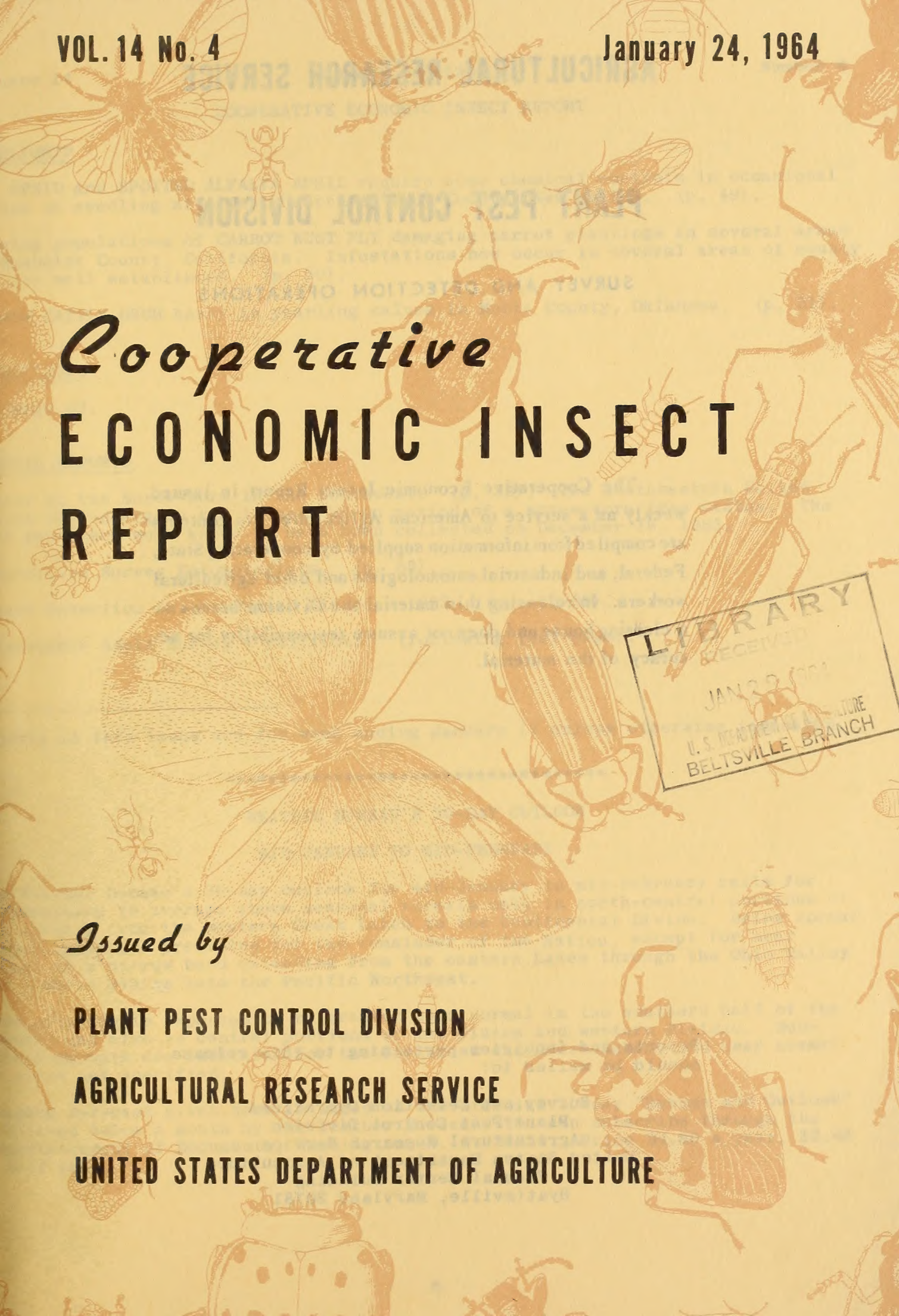

Cooperative ECONOMIC INSECT REPORT

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PLANT PEST CONTROL DIVISION
AGRICULTURAL RESEARCH SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearing house and does not assume responsibility for accuracy of the material.

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Hyattsville, Maryland 20781

Volumne 14 January 24, 1964 Number 4

COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

PEA APHID and SPOTTED ALFALFA APHID require some chemical controls in occasional fields of seedling alfalfa in northern Eddy County, New Mexico. (p. 49).

Varying populations of CARROT RUST FLY damaging carrot plantings in several areas of Humboldt County, California. Infestations now occur in several areas of county and are well established. (p. 50).

COMMON CATTLE GRUB heavy in yearling calves in Noble County, Oklahoma. (p. 51).

CORRECTIONS

See page 53.

SPECIAL REPORTS

Status of the Screw-worm in the Southwest. (p. 52). The Southwestern United States has undergone the longest known period of a screw-worm free status. The last specimens were known to have been collected on December 18, 1963.

Cooperative Survey Entomologists. (p. 55).

Insect Detection in the United States - 1963. (pp. 56-60).

Grasshopper Adult Survey - Fall 1963. (following last page).

Reports in this issue are for week ending January 17 unless otherwise indicated.

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WEATHER BUREAU'S 30-DAY OUTLOOK

MID-JANUARY TO MID-FEBRUARY

The Weather Bureau's 30-day outlook for mid-January to mid-February calls for temperatures to average above seasonal normals only in north-central portions of the country from the western Great Lakes to the Continental Divide. Below normal temperatures are predicted for the remainder of the Nation, except for near normal in a narrow band extending from the eastern Lakes through the Ohio Valley and Central Plains into the Pacific Northwest.

Precipitation is expected to be greater than normal in the southern half of the country and also in central portions of the Plains and western Plateau. Subnormal amounts are indicated for the Northeast and Great Lakes, and near normal in areas not specified.

Weather forecast given here is based on the official 30-day "Resume and Outlook" published twice a month by the Weather Bureau. You can subscribe through the Superintendent of Documents, Washington, D. C. 20250. Price $4.80 a year, $2.40 a half year.

WEATHER OF THE WEEK ENDING JANUARY 20

Cold weather prevailed over most of the Nation at the beginning of the week. Many stations from Nevada to New England registered temperatures far below zero on Monday, January 13. A few examples are: Ely, Nevada, -14°; Roswell, New Mexico, -9°; Huron, South Dakota, -25°; and Caribou, Maine, -17°. Some stations in the Ohio River Valley registered their coldest temperatures on Tuesday the 14th. Columbus and Cincinnati, Ohio, recorded -14° and -15°, respectively, on Tuesday. The cold penetrated the Deep South and freezing temperatures reached the Gulf of Mexico, dropping to 16° at Tallahassee, Florida, and 27° at Tampa on Wednesday.

A warming trend at midweek brought the temperatures to near normal. The trend continued, and by Sunday, January 19, many stations registered their highest temperatures for the week. On Sunday afternoon, the temperature reached 41° at Bismark, North Dakota; 50° at Concordia, Kansas; 70° at Fort Worth, Texas; 75° at Laredo, Texas; and 75° at Key West, Fort Myers, and Miami, Florida.

Weekly averages of temperature were above normal over the Pacific Northwest and the northern Great Plains. Temperatures averaged below normal over the Great Basin, the central and southern Rocky Mountains, the southern Plains, and eastward and northward to the Atlantic Ocean and New England. Temperature departures ranged from +18° over northeastern Montana to -12° in central Florida and eastern Virginia.

Wide areas from the Continental Divide eastward to Minnesota and Arkansas received no precipitation of importance during the week. The north Pacific coast received more than 3 inches. More than an inch fell from eastern Texas eastward to the Atlantic. Precipitation also exceeded one inch along the Atlantic Coast from Maryland to southern New England.

The most severe storm of the winter ranged from the middle Mississippi and Ohio River Valleys eastward through most of the Atlantic States early in the week. Deep drifts blocked roads from Illinois eastward and numerous schools and business establishments were closed on Tuesday and Wednesday. The Weather Bureau issued heavy snow and hazardous driving warnings through much of the Ohio River Valley, for Tennessee and for the Atlantic States. Another storm at midweek dumped snow, sleet and freezing rain over northeast Texas, southern Arkansas, Tennessee and northern and central Mississippi. Three intense storms moved inland in the Pacific Northwest. These brought several inches of rain along the coast and daily snowfall amounts of 15 to 24 inches to some mountainous locations. Winds in western Washington reached 50 to 75 m.p.h., on Sunday, January 19. These winter storms curtailed some outside activities. (Summary supplied by U. S. Weather Bureau).

CEREAL AND FORAGE INSECTS

GREENBUG (Schizaphis graminum) - OKLAHOMA - Cold weather continues to keep populations at low level. Counts fewer than 20 per linear foot in Perkins area, Payne County. (Okla. Coop. Sur.). NEW MEXICO - Populations remain light in Chaves and Eddy Counties on small grains. (N. M. Coop. Rpt.).

PEA APHID (Acyrthosiphon pisum) - NEW MEXICO - Mostly light, spotted infestations in alfalfa in northern Eddy County. Occasional fields of seedling alfalfa require chemical treatment. (N. M. Coop. Rpt.). ARIZONA - Populations continue light in alfalfa fields of Yuma and Maricopa Counties. Ranged 20-25 per 100 sweeps. (Ariz. Coop. Sur.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - NEW MEXICO - Mostly light, spotted infestations in alfalfa in northern Eddy County. Occasional fields of seedling alfalfa required chemical treatment. (N. M. Coop. Rpt.). OKLAHOMA - Only light numbers found in localized area on overwintering alfalfa in Wagoner County. (Okla. Coop. Sur.).

MELON APHID (Aphis gossypii) - ARIZONA - Light populations found in alfalfa fields of Yuma County; averaged 10 per 100 sweeps. (Ariz. Coop. Sur.).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - Slight increase noted in alfalfa fields of Yuma and Maricopa Counties. Ranged 10-15 per 100 sweeps. (Ariz. Coop. Sur.).

FALL ARMYWORM (Laphygma frugiperda) - FLORIDA - Taken on fruit and stem of sweet corn at Port Mayaca, Martin County. (Smith, Campbell, Jan. 8).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - Adults present in or near alfalfa in Yuma and Maricopa Counties. Larvae average 15 per 100 sweeps. (Ariz. Coop. Sur.). CALIFORNIA - Larvae light on alfalfa in Clovis, Fresno County. (Cal. Coop. Rpt.).

A PYRAUSTID MOTH (Udea profundalis) - CALIFORNIA - Larvae light on alfalfa in Kerman, Fresno County. (Cal. Coop. Rpt.).

A WEEVIL (Hypera brunneipennis) - ARIZONA - Few larvae found in alfalfa fields of Yuma County. Egg masses numerous; averaged 12-14 per 100 stems. (Ariz. Coop. Sur.).

SEED-CORN MAGGOT (Hylemya platura) - TEXAS - Infestations of what is probably this species reported on flax in Bee County; cutting flax roots in some localized fields. (Reyes).

FRUIT INSECTS

CODLING MOTH (Carpocapsa pomonella) - NEW MEXICO - Few larvae noted in cocoons under bark of apple trees checked in Sandoval County. (N. M. Coop. Rpt.).

SAN JOSE SCALE (Aspidiotus perniciosus) - CALIFORNIA - Medium locally on apple in Yreka, Siskiyou County. (Cal. Coop. Rpt.).

WHITE PEACH SCALE (Pseudaulacaspis pentagona) - ALABAMA - Light on isolated peach trees in Lee County. (McQueen).

HICKORY SHUCKWORM (Laspeyresia caryana) - ALABAMA - Continues very numerous in pecan husks on ground in Lee and Macon Counties; survived recent 10°F. cold, sleet and ice in central counties. (McQueen).

BLACK PECAN APHID (*Melanocallis caryaefoliae*) - ALABAMA - Numerous eggs on all trees examined in *Lee and Macon Counties*; 5-30 eggs per inch on many twigs, branches and stems. Cold weather (10°F.) apparently without effect on survival. (McQueen).

SPIDER MITES (*Tetranychus* spp.) - ALABAMA - Considerable numbers of eggs and adults (mostly eggs) noted on pecan trees examined in Lee and Macon Counties. (McQueen).

TWO-SPOTTED SPIDER MITE (*Tetranychus telarius*) - CALIFORNIA - Medium on citrus nursery stock in Lindsay, Tulare County. (Cal. Coop. Rpt.).

CITRUS RED MITE (*Panonychus citri*) - CALIFORNIA - Medium on citrus nursery stock in Lindsay, Tulare County. (Cal. Coop. Rpt.).

AN ARMORED SCALE (*Aspidiotus lataniae*) - CALIFORNIA - Adults heavy on bark and trunk of grapevines in Oceanside, San Diego County. (Cal. Coop. Rpt.).

TRUCK CROP INSECTS

CARROT RUST FLY (*Psila rosae*) - CALIFORNIA - Varying populations damaging carrot plantings in Eureka, Fortuna, Arcata and Ferndale, Humboldt County. This species discovered in dooryard plantings of carrots in Eureka. Infestations now occur in several areas in county and are well established. (Cal. Coop. Rpt.).

GREEN PEACH APHID (*Myzus persicae*) - ARIZONA - Light to moderate in vegetable fields in Yuma County. Infestations very sporadic in county; ranged 75-100 per 10 plants. (Ariz. Coop. Sur.).

SPIDER MITES (*Tetranychus* spp.) - ALABAMA - Adults and eggs observed on strawberries in Lee, Macon and Montgomery Counties; ranged light to extremely heavy on strawberries. Apparently overwintering on other plants but strawberries show considerable isolated damage. (McQueen).

COTTON INSECTS

WEEVILS (*Anthonomus* spp.) - ARIZONA - Live specimens continue to be found in bolls of cotton near Wellton-Mohawk area, Yuma County. (Ariz. Coop. Sur.).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

PINE APHIDS - ALABAMA - Both *Eulachnus* sp. and *Cinara* sp. reported in December continue present in extremely high numbers on pines throughout central area. *Eulachnus* sp. appears more populous and, on isolated trees, heavy prior to first freeze of season. Only occasional specimen seen in flight. Adults of *Hippodamia convergens* and *Coccinella sanguinea* continue feeding but in smaller numbers. (McQueen).

WOOLLY ALDER APHID (*Prociphilus tessellatus*) - ALABAMA - Eggs numerous on stems and branches of hazel alder along stream banks and ponds where adult population reported heavy in October and November in Lee and Macon Counties. (McQueen).

EUROPEAN ELM SCALE (*Gossyparia spuria*) - NEW MEXICO - Light to moderate on elm trees in Sandoval and Bernalillo Counties. (N. M. Coop. Rpt.).

RUSTY PLUM APHID (*Hysteroneura setariae*) - ARIZONA - Infestations continue to be found on many ornamentals in Phoenix area, Maricopa County. (Ariz. Coop. Sur.).

APHIDS - CALIFORNIA - *Stegophylla quercicola* medium on *Quercus agrifolia* nursery stock in San Gabriel, Los Angeles County. *Thoracaphis umbellulariae* infesting street bay trees in Santa Maria, Santa Barbara County. (Cal. Coop. Rpt.).

A PSYLLID (*Paratrioza maculipennis*) - CALIFORNIA - Medium on *Solanum* sp. in Fallbrook, San Diego County. (Cal. Coop. Rpt.).

PINE NEEDLE SCALE (*Phenacaspis pinifoliae*) - CALIFORNIA - Medium on Mugho pine and white spruce in Greenville, Plumas County. (Cal. Coop. Rpt.).

LONG-TAILED MEALYBUG (*Pseudococcus adonidum*) - CALIFORNIA - Heavy on *Ficus retusa* nursery stock in South San Francisco, San Mateo County. (Cal. Coop. Rpt.).

Coccids in Florida - *Aspidiotus osborni* light on *Magnolia soulangeana* at De Leon Springs, Volusia County, (Roberts, Dec. 30); *A. jugulansregiae* taken on *Camellia japonica* at Tallahassee, Leon County, (Bingaman, Hill, Dec. 6); *Saissetia hemisphaerica* caused light damage to stem of *Thunbergia erecta* at Pembroke, Polk County, (Snell, Peterson, Jan 6); *Pseudaonidia paeoniae* taken on stem of *Ilex* sp. at Fellowship, Marion County, (Graham, Dec. 30); and *Phenacaspis pinifoliae* caused light damage to leaves of *Abies balsamea* at Clermont, Lake County, (Henderson, Brown, Dec. 16). All above are new host records for the Florida Division of Plant Industry; last named host imported Christmas trees from unknown origin. (Fla. Coop. Sur.). *Asterolecanium bambusae* moderately damaged clum of bamboo at Pembroke, Polk County, (Snell, Peterson, Jan. 6); *Parlatoria pergandii* severely damaged viburnum at St. Petersburg, Pinellas County, (Bingaman, Jan. 8); *Fiorina theae* caused severe damage to Chinese holly and dahoon holly at Holly Hill, Volusia County, (Pott, Jan. 10); and *Cerococcus* sp. caused light to severe damage to stem of hibiscus and acalypha at North Miami, Dade County, (Hickman, Jan. 8, 9).

SPIDER MITES - ALABAMA - Adults and eggs of *Tetranychus* spp. observed in Lee, Macon and Montgomery Counties; light to extremely heavy on ornamentals, including azaleas, pines, hollies, cherry-laurels, privets and magnolias. Most injury apparent on cherry-laurel and azalea. Mites appear to be overwintering on other plants, but these show considerable isolated damage. (McQueen). CALIFORNIA - *Eotetranychus lewisi* heavy on poinsettia in Arlington, Riverside County, and *T. telarius* heavy on *Magnolia soulangeana* at Colma, San Mateo County. (Cal.Coop.Rpt.).

INSECTS AFFECTING MAN AND ANIMALS

MOSQUITOES - TEXAS - Low temperatures reduced annoyance prevalent several weeks ago in Jefferson County; however, considerable adult activity may be observed in sheltered locations on sunny days. Most prevalent species, *Culex* sp., probably *salinarius*. Some *Aedes sollicitans* and *Culiseta inorata* present. Occasional *Anopheles* sp. noted. (Tex. Coop. Rpt.). FLORIDA - *Culiseta inorata* taken, biting man on arm 5 miles west of Bradenton, Manatee County. This is a fairly common cool-weather species in State, but reports of its biting man in Florida are relatively scarce. (Mead, Jan. 11).

COMMON CATTLE GRUB (*Hypoderma lineatum*) - OKLAHOMA - Heavy infestation noted on group of yearling calves in Noble County (north central) with counts averaging 22 per head. Counts range 1-10 per head on 50 percent of cattle checked in Bryan County (south central). Light counts of 10 per 30 head observed in Payne County cattle. (Okla. Coop. Sur.).

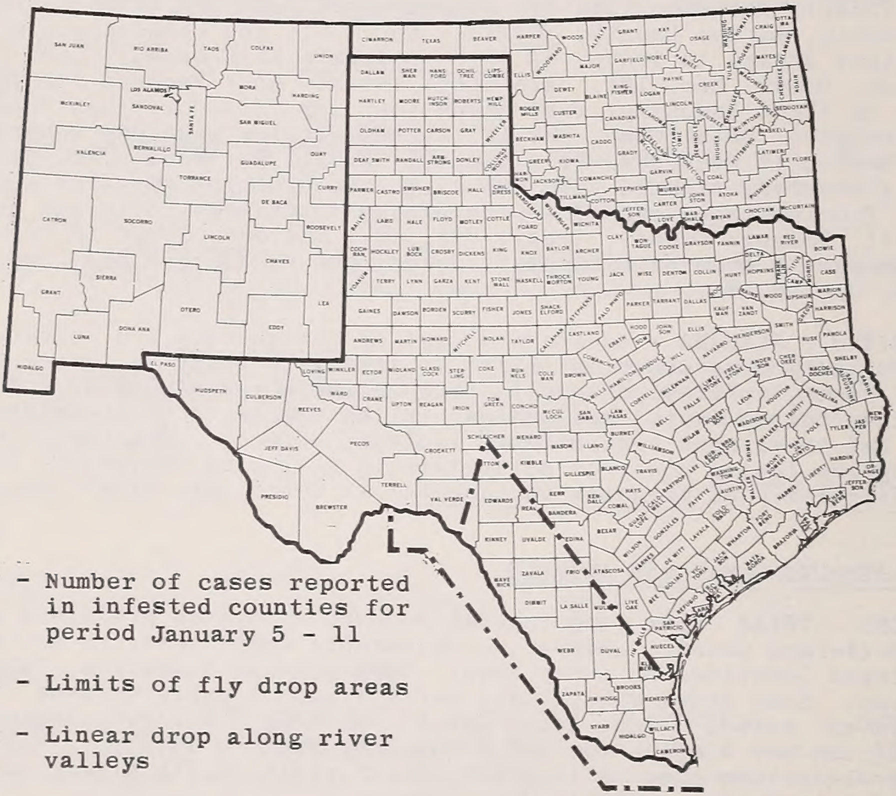
HOG LOUSE (*Haematopinus suis*) - OKLAHOMA - Heavy on hogs in Bryan County (south central). (Okla. Coop. Sur.).

CATTLE LICE - OKLAHOMA - Moderate to heavy on cattle in Blaine (west central) and Bryan (south central) Counties. (Okla. Coop. Sur.). UTAH - Numerous on some animals in western Box Elder County. (Knowlton).

BLOODSUCKING CONENOSE (*Triatoma sanguisuga*) - OKLAHOMA - Adults collected in home in Tulsa County. (Okla. Coop. Sur.).

STATUS OF THE SCREW-WORM (*Cochliomyia hominivorax*) IN THE SOUTHWEST

The Southwestern United States has undergone the longest known period of a screw-worm free status. Specimens from one case of myiasis were identified during this period; however, the larvae were believed to have been collected in November 1963. The last specimens were known to be collected on December 18, 1963; therefore, the Southwest has been free for almost a month. Flies released during the period January 5 - 11 reflect the reduced production rate for the first time. A total of slightly more than 78 million sterile flies was released during this period. (Anim. Dis. Erad. Div.).



Figures - Number of cases reported in infested counties for period January 5 - 11

— · — · — - Limits of fly drop areas

ııııııııı - Linear drop along river valleys

WINTER TICK (*Dermacentor albipictus*) - OKLAHOMA - Light counts noted on cattle in Payne County. (Okla. Coop. Sur.).

EAR TICK (*Otobius megnini*) - OKLAHOMA - Average counts of 4 per ear noted on yearling steers in Payne County. (Okla. Coop. Sur.).

HOUSEHOLD AND STRUCTURAL INSECTS

NAVEL ORANGEWORM (*Paramyelois transitella*) - CALIFORNIA - Larvae heavy in stored walnut meats in home in Chico, Butte County, and in shelled almonds in Sacramento, Sacramento County. (Cal. Coop. Rpt.).

CIGARETTE BEETLE (*Lasioderma serricorne*) - CALIFORNIA - Heavy in cayenne pepper in home in Riverside, Riverside County. (Cal. Coop. Rpt.).

BOXELDER BUG (*Leptocoris trivittatus*) - MARYLAND - Causing nuisance by entering home at Baltimore. (U. Md., Ent. Dept.). OKLAHOMA - Activity in Stillwater area, Payne County, causing some concern to homeowners. (Okla. Coop. Sur.). UTAH - Invading home in Salt Lake City, Salt Lake County. (Knowlton).

A SPRINGTAIL (*Entomobrya unostrigata*) - CALIFORNIA - Heavy numbers invading school building in Santee, San Diego County. (Cal. Coop. Rpt.).

AMERICAN COCKROACH (*Periplaneta americana*) - MARYLAND - Infesting buildings on 2 properties in Anne Arundel and Prince Georges Counties. (U. Md., Ent. Dept.).

STORED-PRODUCT INSECTS

Stored-product Insects in Alabama - Adults of *Dermestes maculatus* and *Alphitobius laevigatus* and larvae of *Attagenus piceus* collected in smaller numbers than anticipated in warehouse in Mobile County. (Seibels, Wallace). Numerous larvae of *Anthrenus* spp. collected in recent surveys in import cotton cloth warehouse in Lee County; collected in trash piles, waste lint and bagging. (Barwood, Wise, Harris).

BEAN WEEVIL (*Acanthoscelides obtectus*) - CALIFORNIA - Adults heavy in packaged beans in market in Diamond Springs, El Dorado County. (Cal. Coop. Rpt.).

MISCELLANEOUS INSECTS

IMPORTED FIRE ANT (*Solenopsis saevissima richteri*) - FLORIDA - Additional collection made in Polk County; taken north of Lake Wales on shoulder of U. S. Highway 27. (Richards, Jan. 9).

A GELECHIID MOTH (*Symmoca signatella*) - CALIFORNIA - Larvae medium on catalpa trees in San Bernardino, San Bernardino County; this is a scavenger species. (Cal. Coop. Rpt.).

A MITE - TEXAS - Undetermined species damaging earthworm beds in Cherokee County. Several reports of this nature submitted during last few weeks. (McKay).

CORRECTIONS

CEIR 14(1):7 - LADY BEETLES - ALABAMA - Delete last statement: "Apparently feeding on mites or mite eggs." Correct spelling is *Psyllobora vigintimaculata*. This is a phytophagus species that feeds on conidia of fungi.

CEIR 14(2):12 - HICKORY SHUCKWORM (*Laspeyresia caryana*) should read PECAN WEEVIL (*Curculio caryae*).

LIGHT TRAP COLLECTIONS

	Temperature F.	Precipitation	Type of trap *	Agrotis ipsilon (black cutworm)	Carpocapsa pomonella (codling moth)	Chorizagrotis auxiliaris (army cutworm)	Estigmene acrea (salt-marsh caterpillar)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	Heliothis zea (bollworm, corn earworm)	Laphygma frugiperda (fall armyworm)	Loxostege commixtalis (alfalfa webworm)	Loxostege similalis (garden webworm)	Loxostege sticticalis (beet webworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Prodenia ornithogalli (yellow-striped armyworm)	Protoparce quinquemaculata (tomato hornworm)	Protoparce sexta (tobacco hornworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Trichoplusia ni (cabbage looper)	Major crop **
SOUTH CAROLINA Charleston 1/6-12	30-68	5.84	BL	3					7	0	0	0					0	0	0	0	7		0	
TEXAS Brownsville 1/8-13			4 BL	69			60		223		32	278					265	49		1	125		4	

* BL = blacklight; I = incandescent; MV = mercury vapor ; O = other

** alf. = alfalfa; beet = garden beet and/or sugar beet; cole = cole crops (crucifers); cott. = cotton; FC = field corn; grain = small grains; leg. = legumes (unspecified); lett. = lettuce; pean. = peanut; pepp. = pepper; pot. = potatoes; SC = sweet corn; sol. = solanaceous plants (unspecified); soy. = soybean; TC = truck crops (unspecified or mixed); tob. = tobacco; tom. = tomato.

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Revised January 24, 1964

INSECT DETECTION IN THE UNITED STATES - 1963

FIRST UNITED STATES REPORT

Species	Host(s)	State (County) Collection Date	CEIR Vol. 13 Page No.
Aleurotrachelus jelinekii (Frauenfeld) (a whitefly)	*Viburnum* sp.	California (Tulare) 2/25/63	365
Dialeurodes kirkaldyi (Kotinsky) (a whitefly)	*Morinda citrifolia*	Florida (Monroe) 11/8/62	498, 620
Ectopsocus maindroni Badonnel (a psocid)	Collected in residence	Hawaii (Honolulu) 10/5/63 1/	1324
Rhagoletotrypeta sp. (a fruit fly)	sticky board traps	New Jersey (Camden) 8/2/62	281

FIRST STATE REPORT

Species	Host(s)	State (County) Collection Date	CEIR Vol. 13 Page No.
Aceria tulipae (Keifer) (wheat curl mite)	orchardgrass	Arkansas (Washington) July 1963	1292
Aculus schlechtendali (Nalepa) (apple rust mite)	apple trees	Maine (Waldo) 7/18/63	1110
Adistemia watsoni Wollaston (a lathridiid beetle)	collected in residence	Delaware (New Castle) 4/9/63	472
Aleuroplatus gelatinosus (Cockerell) (a whitefly	evergreen oaks	Utah (Washington) 4/16/63	726
Amphimallon majalis (Razoumowsky) (European chafer)	collected in blacklight trap	Pennsylvania (Erie) 6/26/63 2/	874
Argiope amoena Koch (an orb weaver spider)	--------	Hawaii (Honolulu) 1/20/63	86, 1223
Bomolocha abalienalis (Walker) (a noctuid moth)	--------	Delaware (New Castle) 7/10/63	1188
Brochymena quadripustulata (Fabricius) (a stink bug)	--------	Hawaii (Honolulu) October ?/62	17

1/ Previously intercepted at Honolulu.

2/ Collection date on page 874 in error.

First State Report (cont'd)

Species	Host(s)	State (County) Collection Date	CEIR Vol. 13 Page No.
Bucculatrix tridenticola Braun (a lyonetiid moth)	sagebrush	California (Lassen) 7/12/63	1396
Clavaspis herculeana (Doane & Hadden) (a diaspid scale insect)	*Plumeria* sp.	Hawaii (Honolulu) 5/18/63	1416
Crambus elegans Clemens (a grass moth)	-------	Delaware (New Castle) 6/17/63	1188
Cyrtepistomus castaneus (Roelofs) (Asiatic oak weevil)	Collected in residence	Indiana (Jennings, Jackson) 9/24/62	305
	oak	Ohio (Tuscarawas) 8/5/63	960
	--------	Tennessee (Coffee) Nov. 1962	1024
Derocrepis erythropus (Melsheimer) (a leaf beetle)	black locust	Delaware (New Castle) 6/12/63	867
Diabrotica cristata Harris (a leaf beetle)	--------	Alabama (Winston) 6/26-27/63	1301
Dicymolomia julianalis (Walker) (a pyralid moth)	--------	Delaware (Kent) 5/27-31/63	694
Dioryctria zimmermani (Grote) (Zimmerman pine moth)	Scotch pine	West Virginia (Boone) 6/25/63	1149
Dysmicoccus lasii (Cockerell) (a mealybug)	*Borreria terminalis*	Florida (Dade) 7/28/61	106
Eleodes suturalis (Say) (a darkling beetle)	--------	California (Stanislaus) 8/9/63	966
Euclyptus rutilus Fall (a weevil)	--------	Utah (Box Elder) 5/22/62	324
Fissuraspis ulmi (Hoke) (an armored scale)	American elm	Florida (Volusia) 5/2/63	656
Forficula auricularia Linnaeus (European earwig)	Collected in residence	Michigan (Ingham) 8/1/63	1059
Heliothis phloxiphaga form *luteitinctus* Grote (a noctuid moth)	Collected in blacklight trap	Delaware (New Castle) 8/14/62	624

First State Report (cont'd)

Species	Host(s)	State (County) Collection Date	CEIR Vol. 13 Page No.
Hexarthrum ulkei Horn (a weevil)	old pine flooring in home	Colorado (Denver) 7/19/63	497
Homadaula albizziae Clarke (mimosa webworm)	Mimosa, honeylocust	Oklahoma (Tulsa) 7/30/63	924
Hypera postica (Gyllenhal) (alfalfa weevil)	alfalfa	Arkansas (Mississippi) 5/6/63	541
	alfalfa	Mississippi (Oktibbeha) April 1963	635
	alfalfa	New Hampshire (Rockingham) 5/21/63	601
Hypogeocoris imperialis (Distant) (a big-eyed bug)	--------	Arkansas (Conway) 6/15/63	932
Incisitermes minor (Hagen) (western drywood termite)	wooden ceiling	Ohio (Greene) 6/18/63	1087
	Fraxinus velutina (partly dead)	Nevada (Clark) 4/28/63	533
	hardwood furniture	Texas (Bexar) Jan. 1963	119
Janus integer (Norton) (currant stem girdler)	Wilder red currants	Washington (Yakima) 5/24/63	713
Lopidea confluenta (Say) (a mirid)	collected in blacklight trap	Delaware (Kent) 6/19/62	624
Megacheuma brevipennis (LeConte) (a long-horned beetle)	--------	Oregon (Harney) 1962	660
Melanaspis aliena (Newstead) (an armored scale)	cattleya orchid	Florida (Broward) 2/5/58	620
Microdon aurulentus (Fabricius) (a flower fly)	collected in Steiner trap	Florida (De Soto) 4/4/63	440
Microparsus olivei Smith and Tr. (an aphid)	*Desmodium canadensis*	Pennsylvania (Centre) 7/20/63	882
Myzocallis frisoni Boudreaux & Tissot (an aphid)	oak	Maryland (Baltimore) 6/27/62	466
Myzus ornatus Laing (an aphid)	*Coleus* sp.	Pennsylvania (Centre) Mar. 1963	436

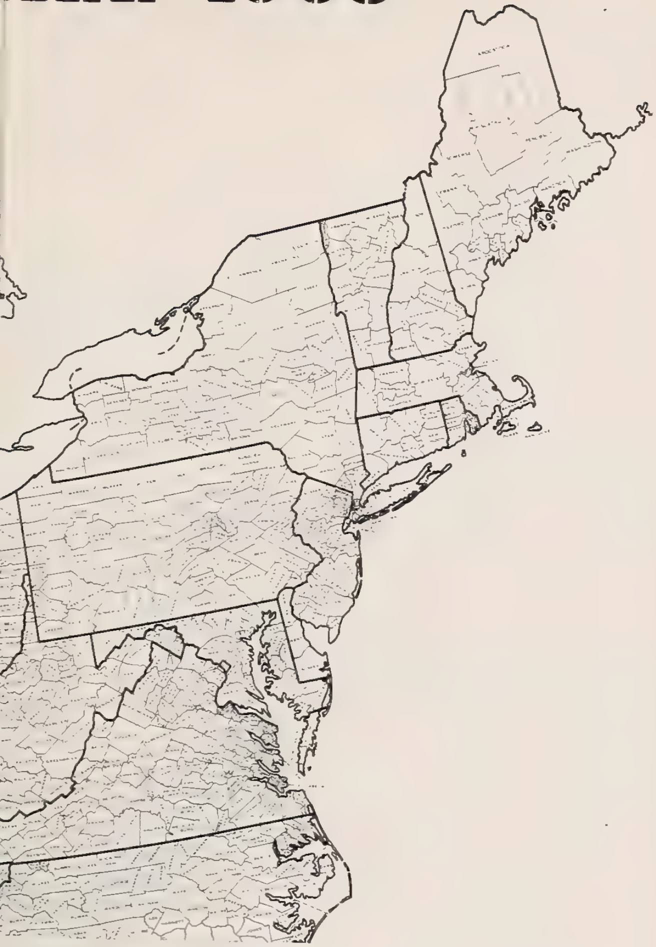
First State Report (cont'd)

Species	Host(s)	State (County) Collection Date	CEIR Vol. 13 Page No.
Myzus sensoriatus Mason (an aphid)	*Hypericum* sp.	Pennsylvania (Centre) Apr. 1963	436
Neodiprion taedae linearis Ross (a pine sawfly)	loblolly pine	Mississippi (Winston) Mar. 1962	254
Neophyllaphis araucariae Tak. 1/ (an aphid)	*Araucaria excelsa*	Florida (Volusia) 11/28/62	1334
Oestrus ovis Linnaeus (sheep bot fly)	reared out in laboratory	Delaware (New Castle) 8/29-30/63	1087
Onthophagus sagittarius (Fabricius) (a scarab)	collected in cow dung	Hawaii (Honolulu) 7/24/63	1381
Ornithonyssus bursa (Berlese) (tropical fowl mite)	chickens	Delaware (Sussex) 12/2/63	1398
Oulema melanopa (Linnaeus) (cereal leaf beetle)	oats	Ohio (Williams) 6/3/63	635
Phyllocoptruta oleivora (Ashmead) (citrus rust mite)	lemon	Arizona (Yuma) 11/6/63	1363
Platytylellus fraternus Knight (a mirid)	collected in blacklight trap	Delaware (Kent) 6/19/62	624
Pseudococcus importatus McKenzie (a mealybug)	cattleya and oncidium orchids	California (Los Angeles) Apr. 1963	620
Psilocorsis quercicella Clemens (an oecophorid moth)	oak	South Carolina (Anderson) 10/16/62	1214
Rhagoletis completa Cresson (walnut husk fly)	--------	Oregon (Jackson) Oct. 1963	1209
Rhizoecus cacticans (Hambleton) (a ground mealybug)	*Neoregelia* sp.	Florida (Orange) 8/1/61	620
Rhizoecus leucosomus Cockerell (a ground mealybug)	*Mesembryanthemum* sp.	Florida (Seminole) 2/15/63	436
Rhizoecus pritchardi McKenzie (a mealybug)	African-violet	Pennsylvania (Montgomery) 2/8/63	493

1/ Also first record on continental United States; previously reported in Hawaii.

Species	Host(s)	State (County) Collection Date	CEIR Vol. 13 Page No.
Spanogonicus albofasciatus (Reuter) (a fleahopper)	cotton	Arkansas (Jefferson) 9/28/63	1243
Sphenophorus cicatristriatus Fahraeus (a billbug)	bluegrass	Washington (Benton) 7/3/63	983
Systena frontalis (Fabricius) (a flea beetle)	horseradish	Delaware (Kent) 7/10/63	861
Texananus gladius DeLong (a leafhopper)	African-violet	California (Los Angeles) 10/2/62	141
Thyridopteryx ephemeraeformis (Haworth) (bagworm)	juniper	Colorado (Larimer) 8/9/63	1024
Xylobiops basilaris (Say) (a bostrichid)	mimosa	Delaware (New Castle) 5/16/63	619
Zeadiatraea grandiosella (Dyar) (southwestern corn borer)	corn	Alabama (Pickens) fall 1962	1262
	corn	Illinois (Alexander) 3/29/63	391

ALL 1963



VERY ABUNDANT 28 OR MORE GRASSHOPPERS PER SQUARE YARD

ABUNDANT 15 - 27 GRASSHOPPERS PER SQUARE YARD

MODERATE 8 - 14 GRASSHOPPERS PER SQUARE YARD

LIGHT 3 - 7 GRASSHOPPERS PER SQUARE YARD

SOLID COLORS - RANGELAND INFESTATIONS
STIPPLED COLORS - CROPLAND INFESTATIONS

FOR CONTROL ON CROP OR RANGELAND NEXT SEASON
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TION OF VEGETATION.

NFORMATION CONCERNING THE GRASSHOPPER PROBLEM
AREAS CAN BE OBTAINED FROM STATE PEST
OFFICIALS, COUNTY AGENTS, AND PLANT PEST
DIVISION PERSONNEL.

PREPARED IN PPC, ARS, USDA
DECEMBER 1, 1963

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CULTURAL RESEARCH SERVICE
ANT PEST CONTROL DIVISION

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NFESTATIONS – ACREAGE BY R

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TAL RES	REGION AND STATE	F
),000	Nevada	
),760	New Mexico	
,820	Oregon	
	Utah	
	Washington	
,800	Wyoming	
,850		
,860	SOUTHERN	
,000	Oklahoma	
,000	Texas	

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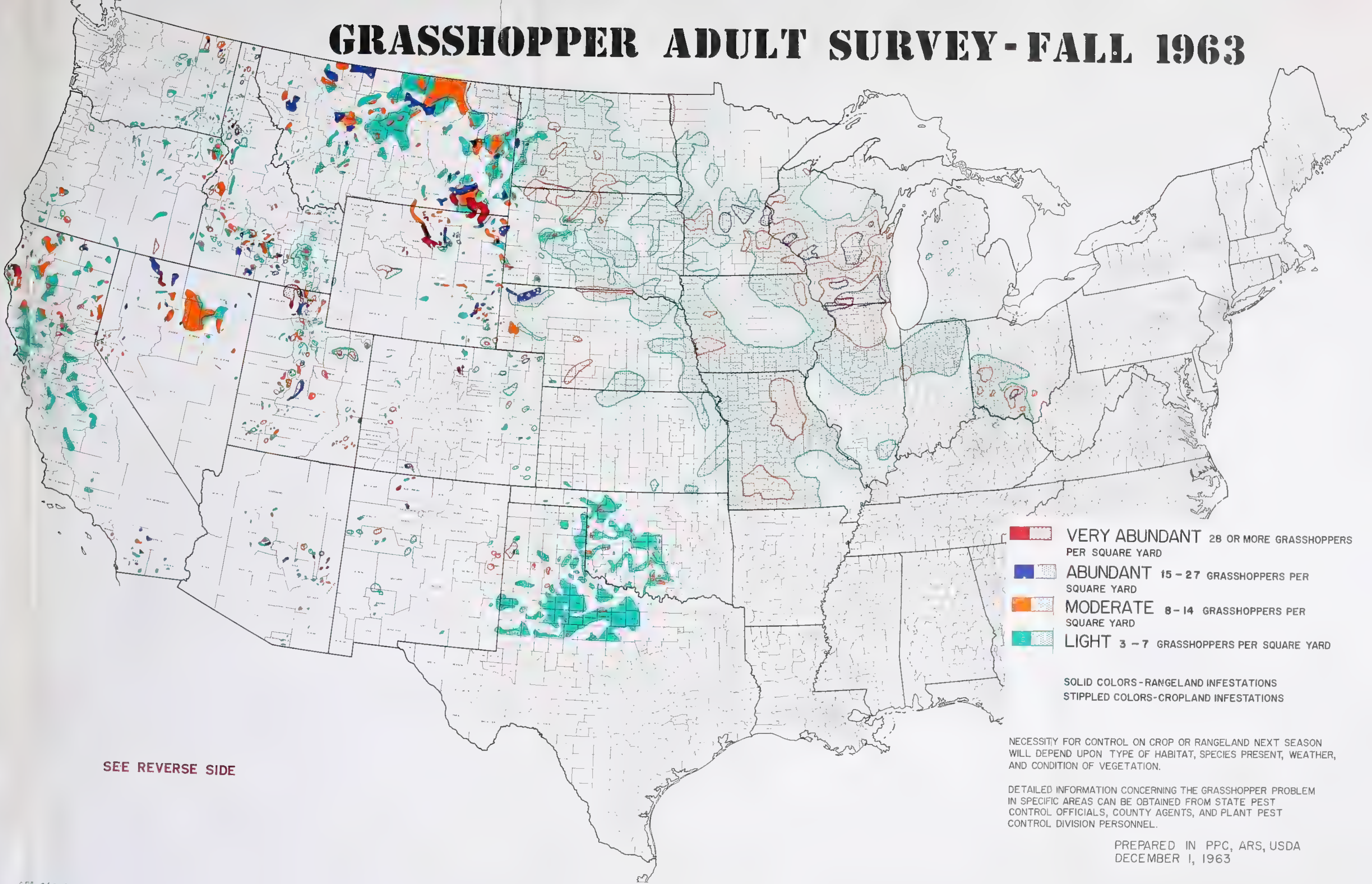
GRASSHOPPER ADULT SURVEY - FALL 1963



🟥 ▨ VERY ABUNDANT 28 OR MORE GRASSHOPPERS PER SQUARE YARD

🟦 ▨ ABUNDANT 15 - 27 GRASSHOPPERS PER SQUARE YARD

🟧 ▨ MODERATE 8 - 14 GRASSHOPPERS PER SQUARE YARD

🟩 ▨ LIGHT 3 - 7 GRASSHOPPERS PER SQUARE YARD

SOLID COLORS - RANGELAND INFESTATIONS
STIPPLED COLORS - CROPLAND INFESTATIONS

NECESSITY FOR CONTROL ON CROP OR RANGELAND NEXT SEASON WILL DEPEND UPON TYPE OF HABITAT, SPECIES PRESENT, WEATHER, AND CONDITION OF VEGETATION.

DETAILED INFORMATION CONCERNING THE GRASSHOPPER PROBLEM IN SPECIFIC AREAS CAN BE OBTAINED FROM STATE PEST CONTROL OFFICIALS, COUNTY AGENTS, AND PLANT PEST CONTROL DIVISION PERSONNEL.

SEE REVERSE SIDE

PREPARED IN PPC, ARS, USDA
DECEMBER 1, 1963

GPO 968-055

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and fall of 1963. The survey reveals where and how many grass-
the spring, determine population densities, and indicate those

were indicated in the 1962 fall survey. Control on those lands
areas, shown on the map in solid colors (orange, blue and red
thin these areas, infestations may be solid or spotted.

GIONS, FALL 1963

ed)

LANDOWNERSHIP – ACRES		TOTAL ACRES
RIVATE AND STATE	PUBLIC DOMAIN	
31,600	302,640	334,240
3,600	900	4,500
36,050	7,250	43,300
130,680	407,620	538,300
22,000	– –	22,000
817,000	160,500	977,500
123,280	– –	123,280
63,800	– –	63,800

eration with various State agencies concerned.

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PLANT PEST CONTROL DIVISION

TO COOPERATORS

This map is based upon the results of cooperative grasshopper adult surveys made during the late summer and fall of 1963. The survey reveals where and how many grasshoppers infest an area, and indicates the potential severity of infestations for 1964. Nymphal surveys, made in the spring, determine population densities, and indicate those areas where control may be necessary in 1964.

The infestations in croplands, shown on the map in stippling, appear to be about the same as those which were indicated in the 1962 fall survey. Control on those lands will be handled by the farmers with technical assistance from Division and State personnel. The infested range areas, shown on the map in solid colors (orange, blue and red only), total 10,014,010 acres in 16 Western and Midwestern States. Shaded areas on the map are diagrammatic. Within these areas, infestations may be solid or spotted.

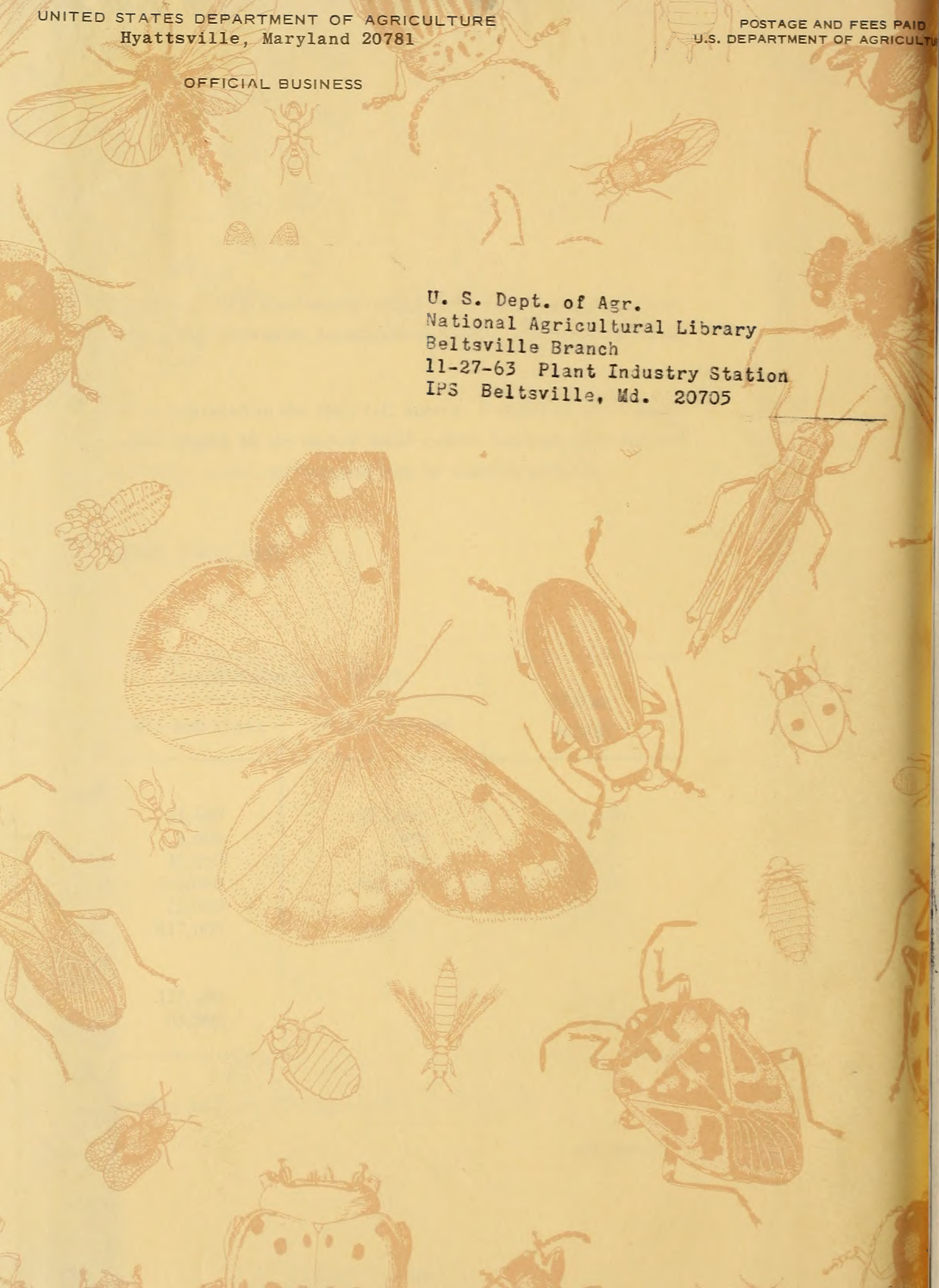
RANGELAND GRASSHOPPER INFESTATIONS – ACREAGE BY REGIONS, FALL 1963

(Moderate Populations or Above – Orange, Blue and Red)

REGION AND STATE	LANDOWNERSHIP – ACRES		TOTAL ACRES
	PRIVATE AND STATE	PUBLIC DOMAIN	
CENTRAL			
Nebraska	465,000	65,000	530,000
No. Dakota	3,480	47,280	50,760
So. Dakota	118,060	43,760	161,820
WESTERN			
Arizona	32,500	49,300	81,800
California	296,750	14,100	310,850
Colorado	34,100	5,760	39,860
Idaho	190,000	755,000	945,000
Montana	4,060,000	1,727,000	5,787,000
Nevada	31,600	302,640	334,240
New Mexico	3,600	900	4,500
Oregon	36,050	7,250	43,300
Utah	130,680	407,620	538,300
Washington	22,000	– –	22,000
Wyoming	817,000	160,500	977,500
SOUTHERN			
Oklahoma	123,280	– –	123,280
Texas	63,800	– –	63,800

The survey was planned and performed by the Plant Pest Control Division, Agricultural Research Service, in cooperation with various State agencies concerned.

GPO 968-055



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